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PLACID LAKE STATE RECREATION AREA:

DRAFT ENVIRONMENTAL STATEMEMENT AND DEVELOPMENT PLAN

Montana Department of Fish and Game,

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Placed Lake State Recreation Area draft
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I, DESCRIPTION OF THE PROPOSED ACTION

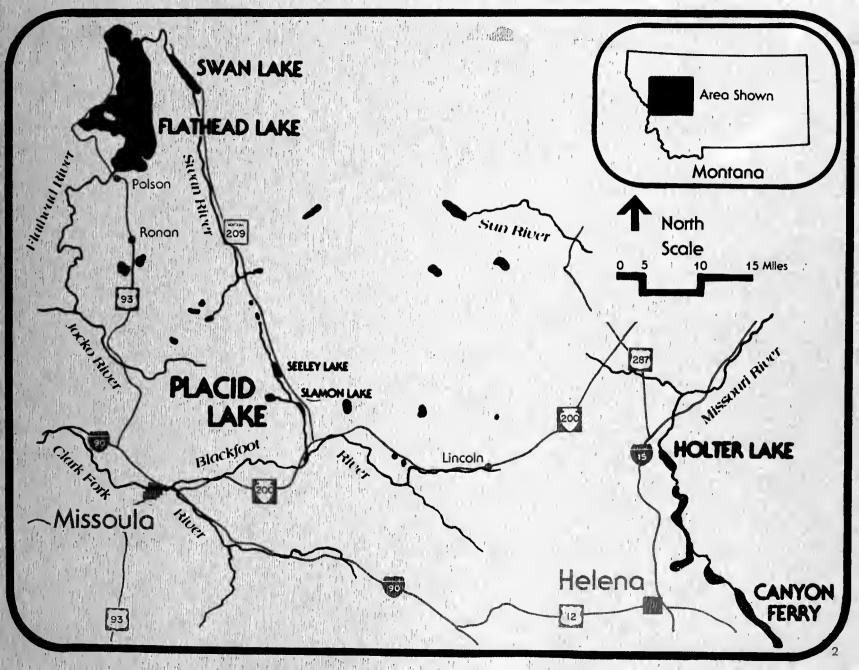
A. A Summary

Over the past several years the Department of Fish and Game has been negotiating with the Champion Timberlands Division of Champion International Corporation for the acquisition by donation of two tracts of property contiguous to Placid Lake. This lake is located in the Clearwater Valley about 30 miles NE of Missoula in Eastern Missoula County. When negotiations were satisfactory the Department requested authority from the 1977 legister letter to spend Land and Water Conservation Fund (LWCF) matching money. This authority was granted. The value of the land donation will be matched with LWCF monies in order to fund the proposed development.

This ETS addresses the probable effects the acquisition and development will have upon the existing environment.

Construction is scheduled to begin in late 1978.







B. The Setting

Placid is a glacial lake in the Clearwater Valley, near the Clearwater chain of lakes, a group which includes Secley, Salmon, and Inez. It lies about four miles southwest of Seeley, the same distance northwest of Salmon, and three miles west of State Righway 209. Much of the currounding country is forested, fairly moist—for Hontana at least—and about 4000 to 4500 feet above see level. Land adjacent to Placid Lake is owned by the Lolo National Forest, Clearwater State Forest, timber companies, and some private holdings by recreationists and ranchers.



The 1185-scre lake is fed by Placid Creek Fris the west end trained by Owl Creek, a Clearwater tributary. Champion owns about half of the shoreline and leases their sites around the lake. Cabin sites are also leased to private parties by the State Forestry Division on their lands.

Placid Lake is an intensively used and popular recreation area according to the Missoula County Comprehensive Plan. Recreationists presently obtain access to the lake over the property Champion International has agreed to donate to the Department. Other Champion International property which is presently being used by the recreating public includes areas at Oul Creek, Salmon Lake, and at several small lakes within the boundaries of the holo National Forest.

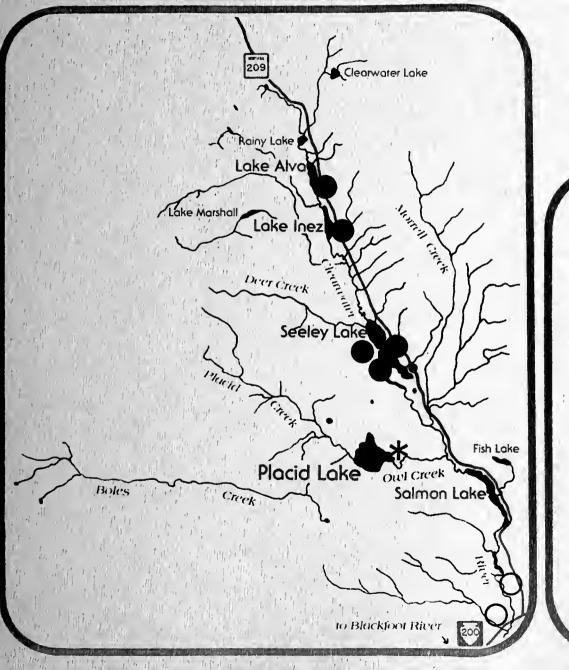
The U.S. Forest Service offers three public campgrounds and boat Launches at Seeley Lake. The Department of Fish and Game has a small campground at Rarper Lake Fishing Access north of Clearwater Junction

C. The Donation

Champion's Placid dougtion consists of two east shore parcels: a!
1.5-acre tract at the northeast end of the lake; and a 30-acre tract at the southeast boundary of the lake; The larger tract includes some fairly level ground east of the lakeshore road and several acres southwest of Oul Creek, an area which will not be developed.

The smaller parcel lies between the Placid Greek road and the lake The larger lies on both sides of the present cabin site; road near the southern shore. Both tracts are forested, have dabin sites adjacent, and are used intensively by the public. Neither tract presently has any developed facilities except for pit latrines.

For details on public recreation in the area-including wore on local, state, and federal facilities and plane see pages 20-24.



Clearwater Drainage

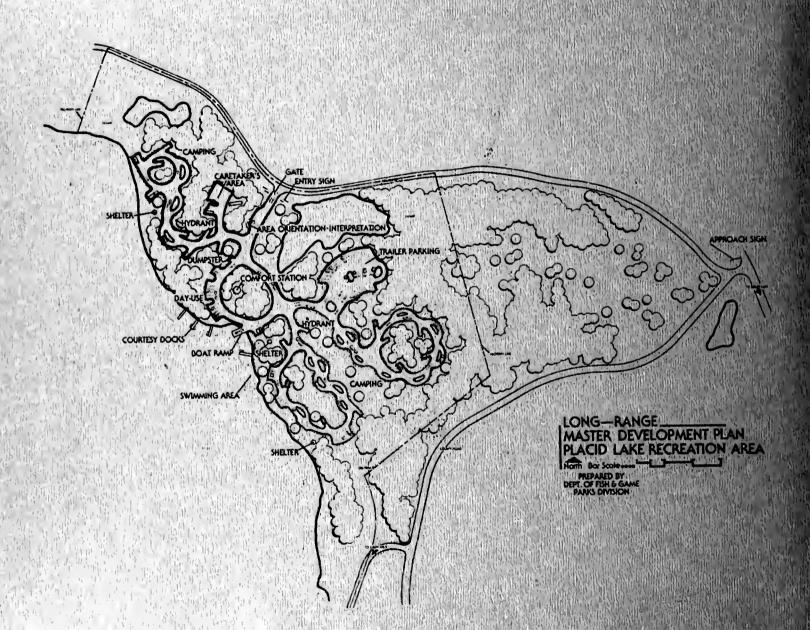
Legend

- * Proposed Campsite
- Existing Campsite
- O Fishing Access
- Road
- 1 North

Bar Scale

0 1 2 5

10 Miles



D. Proposed Development Plan

1. Placid Lake Recreation Area (Southeast Area)

- a. Lockable entrance gate
- b. Area orientation
- c. 3 loops with camping stalls
- d. Boat trailer parking
- e. Day-use area
- f. Boat ramp
- g. Modern comfort station
- h. Administrative area
- i. Electrical, sewer, and water systems
- 1. Shelters
- k. Courtesy docks
- 1. Latrines
- m: Site facilities (tables, garbage cans, etc.)
- a. Directional signing
- o. Interpretive signing

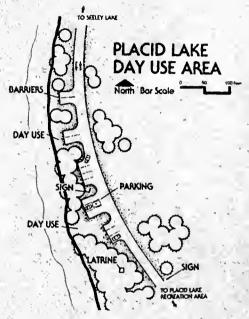
2. Day-use Area (at Northeast end of Lake)

- a. Day-use parking
- b. Signing
- c. Latrine
- d. Site facilities (tables, garbage cans, etc.)

3. Construction methods and design considerations

a. Entrance gate: The design concepts for this facility have not been fully formulated. However, it is intended to consiat of a metal gate with probably a wood and rock structure on either side of the entrance. Some landscape mounds could also be incorporated. The area where the entrance is to be located is not heavily timbered. No trees will be removed.

b. Area orientation: This will consist of a pull-off from the main road and a map sign to orient people to the location of facilities within the site. The day-use area will also be shown on this map. The interpretive signing will also be installed in this vicinity, They will consist of anodized aluminum signs mounted on metal posts. The sign colors will be black and gold. Footpaths and minor landscape modification will be required.



c. Roadwork: Roads will be designed to maintain cross-slope drainage wherever practical. In some areas drainage structures will be required. The roads will be constructed with a gravel base and asphalt surfacing. Cuts and fills will be kept to a minimum. The most significant cut and fills will occur at the southern end of the south camp loop. Here a cross slope of approximately 20% will be traversed at an 8% to 10% grade. It is not presently visualized that any cuts or fills exceeding three feet will be necessary. The new road system is designed to take advantage of existing road scars wherever possible. The easternmost camp loop and the boat trailer parking are located in areas not previously disturbed, however. Parking spots will be located to lie within existing openings in the tree cover. Backslopes and disturbed areas will be reseeded with native grasses. The new areas to be disturbed will consist of approximately 1.5 acres.



BOATEBUNGHING

d. Soat ramp: Inis facility will be constructed from concrete, with forthing along all edges. Below the water line prethat concrets planks will be used to avoid discorbing the lake bottom. The ramp will be a located at the area presently used for launching.

es fodern comfort staffon? This facility will consist of a lavatory and two water closets on the women's side; a lavatory writely will be designed to accompose; handleapped dodled water closet on the men's side; and a plumbing chamber-storage area between them. It will be designed to accompose; handleapped dodled water

f. Electrical system: Service will be from the existing trains migrion line mearby. The new lines will be installed underground and will distribute electricity to the administrative area, the comfort station, and to the well. No electric power will be provided to individual sites.

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A reaident caretaker will be employed during the summer season to provide directions and information. He will also be responsible for day-to-day maintenance of the site and the collection of use fees. The caretaker will also be responsible for collecting the garbage throughout the area and depositing it in the dumpster. The garbage will be collected from the dumpster by a commercial hauler and disposed of in a legal sanitary landfill.

The standard rules and regulations of the Department will apply to this site. Some of the more important of these include: a limit on length of stay, restricting vehicles to established roads, and restrictions on disturbance of vegetation and topsoil. These regulations will be primarily enforced by the caretaker. However, the caretaker has no legal enforcement capabilities. When he encounters any enforcement problems, he will rely on Fish and Same wardens.



II. DESCRIPTION OF THE ENVIRONMENT

A. Natural

1. Topography and Geology

Placid Lake (el. 4121) lies in the Clearwater Valley, an area bordered on the east by the Swan Range and on the west by the Mission Mountaina. Like many lakes and potholes in the region, it was formed by the melting of an ice block--part of a receding Pleistocene Mountain glacier.

Ice in Placid Creek's ancestral valley once extended from north of the lake all the way to Blanchard Creek, about 10 miles to the south. Its meltwaters later left widespread debris, including sand and gravel and a mantle of till—the first underlying the proposed campground, the latter beneath the day-use area. Beneath the mantle of glacial debris lies the Belt series of Pre-Cambrian Age. Neither spot has unique physical features or exploitable mineral resources.

The area does contain a fault paralleling Owl Creek, then apparently continuing under Placid Lake itself.

2. Soils

Soils in the proposed recreation area include three gravelly loams—Holloway, Winkler, and Winkler Sharrott—all of them characterized by slow surface runoff and alight erosion hazards. There is also marshy ground near the Owl Creek outlet, a spot which Fish and Game will not develop.

Holloway soils are found in the south half of the proposed campground. Typically, they are about 50 inches deep, with an 8-inch surface layer of fine silt loam (atony, but without much augular gravel); sub-soil horizons of sandy, very gravelly loam containing meanly 45% gravel. They are moderately permeable and occur on 15% to 30% slopes.

Winkler soils (found in the proposed day-use area at the lake's north end) lie on slopes of 5% to 30% and have more angular gravel in their surface layers than do the Holloways. They are about 70 inches thick (with 40-inch surface layers) and like the Holloways, are moderately permeable.

The Winklar-Sharrott Association (found in the north half of the proposed campground) introduces a new element—the Sharrott gravelly loam, which makes up 15 percent of the association, lies but 20 inches or less above argillite bedrock. The Sharrott profile contains 40% to 70% coarse fragments and is moderately permeable to a depth of 15 inches. Otherwise, depending on exactly where the dominant Winkler Series lies, the campground's soils are fairly similar to those of the proposed day-use area.

According to the Soil Consarvation Service's conattraction auitability tables, all three soils can present certain problems for recreational developers. These generally involve steep slopes, the percentage of rock fragments in surface layers, and, in one case; shallow depth to bedrock.

3. Climate and Air Quality

The Mational Weather Service station closest to Flacid is at Seeley Lake, where normal mean resperatures range from 18.8 degrees F. in January to 62.3 degrees F. in July, and company precipitation from 1.0 inches in August to 2.9 inches in January The annual mean temperature is all degrees F. and yearly precipitation averages about 22 inches over half of it in May Juney and Moyember through January.

Air quality at Seeley Lake is considered very good, thouse at the ranger station in 1972 cometimes recorded high continuate presumably duet from nearby roads. The year's everage 24 hour count (25 micrograms/cubic meter) represents a typical become contration in tural Montana.

4. Surface Water

Flacid Lake has nearly 1200 murkets acres and a 88 feet. It is fed from the west by Placid Greek and dr Clearwater tributary called Gyl Greek-sits of equatic re-University of Montana (see Appendix A)

Studies of the lake a biological and chemical nonfittion complete, but the heavy use of the shoreline by cabin recreationists is potentially deleterious to the water of crowding and uncontrolled driving have damaged the same leading to increesed erosion and sediment loads in the same facilities—such as unsealed latrings in areas of high add nutrients and organic pollutants to the lake.

Despite these localized problems, the lake's un generally good and will probably remain so for the forest

5. Ground Water

There is little known about the anot shown a except that it lies deeper than 10 feet a shown by the wells on the couthwest shore yield a calcium annual with no coliform bacteria and few nutrients, but levels of maganese do not meet Public Health Service drinking was





6. Vegetation

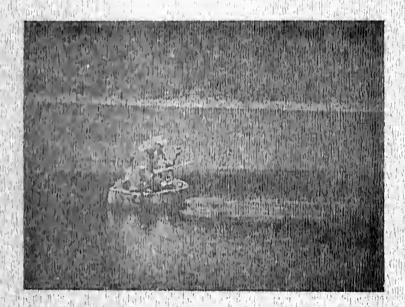
Both parts of the proposed recreation area are forested; the plant communities show evidence of man's disturbance. Altogether, there are 76 species of vascular plants (2 fern allies, 7 conifers, and 67 flowering 4), including some aquatic vegetation in two bogs near the campground. Although the endangered Howell's gumweed (Grindelia howell'i) occurs nearby, it is not found on the proposed development sites. As for the lake itself, water quality studies have turned up 23 species of large aquatic plants (including water lily and considerable growths of pondweed, Potomogeton spp.); and several algae such as Anabaena floo-aquae and Aphanizomenon floo-aquae.

In general, east shore vegetation looks like this: the proposed dayuse area at the lake's north end is comparatively mesic, its plant life uniform.
The canopy consists of ponderosa pine, with a few other evergreens and deciduous
trees; and the badly trampled understory has Wood's rose, Sitka alder, creek dogwood, and several common herbs. The main campground is somewhat arid, but it
also borders on the lakeshore and two bogs. The drier portion has a canopy of
Douglas fir (with ponderosa pine and tamarack) and an understory dominated by
snowberry, ground mahonia; and various sedges. Plant succession is not complete
because the area has been repeatedly distrubed by road building, logging, and
uncontrolled recreational use; but in terms of habitat types (Pfister's et. al.
1977 system), the vegetation most closely resembles the Douglas fir-snowberry
association.

Near the bogs are small stands of Engelmann spruce, and, at the edges, willows, creek dogwood, Sitka alder, and several herbs, including Gmenlin's buttercup. So far, the only aquatic plants observed in the bogs are water lentil and Canadian waterweed. For a detailed list of vascular plants in the proposed recreation area, see Appendix B.

7. Fish

Placid Lake's native fish include cutthroat trout, Dolly Varden, mountain whitefish, northern squawfish, peamouth, and largescale and longnose suckers. Among the exotics are rainbow and brook trout, largemouth bass, yellow perch, pumkinseed (sunfish), and kokanee (salmon). Of these, the game fish most commonly caught are, in order, kokanee, rainbow trout, cutthroat trout, and Dolly Varden. All species are self-sustaining except the rainbow which are stocked periodically.



Most fishermen troll the lake, although there is fall kokanee snagging at the Placid Creek inlet. Pressures are moderate (about 8000 fisherman days during the 1975-76 season*), and the lake's average catch rate of 0.7 fish per hour is considered good. Placid Creek itself is an excellent producer of brook trout and some cutthroat; and Owl Creek has rainbow, brown, and cutthroat trout, and Dolly Varden. During the 1975-76 season, Placid Creek provided about 170 fisherman days, while pressures on Owl Creek were apparently light.



8. Wildlife

The proposed recreation area is a small, fairly diverse site with wildlife habitat ranging from open forest to bogs. Despite heavy recreational use, it still supports a few resident birds, small mannals, reptiles; and amphibians; other wildlife, including several kinds of big game, visit the site. The sites are not important big game winter range; however, adjacent slopes and benches to the north and east are used. The sites do not harbor any known threatened or endangered species.

The area's summer or year long residents include and like kestrels, ruffed grouse, mourning doves, killdeer, spotted sandpipers, belted kingfishers, chicadees, and several other song birds; mammits such as shrews, chipmunks, mink, muskrats, short-tailed weasols, striped skunks, and snowshoe hares; and three common reptiles and amphibians--red-sided garter snakes, western painted turtles, and Rocky Mountain toads;

Transitory species of the site are various waterfowl including Canada geese, mergansers, grebes, teal, and other ducks; repters such as bald eagles, osprey, and red-tailed hawks; and several shore and song birds. Visiting mammals include black bears, white-tailed deer; coyotes, bobcats, beaver, porcupines, and others. For a more complete list of the area's wildlife, see Appendix C.

Each fisherman day is a stop of no more than one day at a fishing place.

B. Human

1. Archaeological Resources

Western Montana was traditionally the home of three Indian tribes -- the Flathead, Pend d'Oreille, and Kutenai -- all members of a "Plateau" or intermountain culture found between the Cascades and the Rockies. Fairly mobile people, they used the region's valleys for hunting, food gathering, and travel; and after the early 1700's (when they obtained horses) they even rode over the Continental Ofvide in search of buffalo.

The Flatheads (who owned more horses than the other tribes) routinely ranged from their homes in the Bitterroot Valley to the Continental Divide, and perhaps from present-day Arlee to the Big Hole River. According to Carling Malouf, their "hunting and gathering" lands included the Clearwater Valley and other Blackfoot River tributaries; in fact, the Seeley Lake country was considered "excellent hunting," and the Blackfoot drainage had abundant plant foods such as camas, berries, and pine nuts.

Though archaeological finds have been made at Swan Lake and along the Clearwater, a recent survey at Placid has yielded nothing. The proposed recreation area is heavily used by recreationists, and any oboriginal materials there apparently have been obscured.

2. Historical Resources

Settlement and occupation of the Placid area began in the early 20th century. The land surrounding the lake was first logged at this time also, about twenty years before the first cabins were constructed. At first, the loggers floated timber down Owl Creek (Placid's outlet stream), but in the 1930's a new road brought access from the east.

Placid's first cabins were built in the 1920's.

Nothing at or near the lake is either included--or is thought eligible for inclusion in the National Register of Historic Places. The same is true for the Montana State Register.

S. Population

	Seeley Lake Blackfoo Census Area and		क्षिति। बाह्यसम्बद्धाः
11 6	adjacent area	Missoula County	Fish & Game Region 2
1970	1,700	58, 263	100,600
1980	2,100	72,500	120,000
1990	2,600	89:200	144,000
2000	3,200	106,000	165,000

Missoula, Mineral, Powell, Granite, Deer Lodge and Ravalli counties.

The population of all areas which Placid Lake is anticipated to serve is expected to continue to grow through the year 2000. While the areas immediately adjacent to Placid Lake may nearly double by 2000 and Fish and Game Region 2, exclusive of Missoula County, may add as many as 17,000 persons, growth in terms of absolute numbers is expected to center in Missoula County and the City of Missoula through the year 2000.

4. Economy and Employment

For years the Clearwater country's economy has been based on timber and outdoor recreation. The area has considerable public and private forest land, well-known recreation spots, and many cabins—some of them at Placid Lake dating back to the 1920's. The town of Seeley Lake itself (pop. 800) does a brisk tourist trade, providing local lodging, meals, and supplies, etc.; but the county's real business center is Missoula, about an hour's drive away.

Timber and recreation are also important county-wide. In 1974, more than 1900 Missoula County residents worked in the lumber and wood products industry, and their total payroll was almost 19 million dollars. By way of rough comparison, the county's hotels, motels, trailer parks and camps--businesses which often profit by their connections with outdoor recreation-employed 604 people in 1972 and had receipts of 24.7 million dollars.

5. Land Usc

a. Ownership and Taxes

The land around Placid Lake is divided among (1) Champion International, which owns half of the shoreline--including portions of the south and east sides, where there are 14 cabin leases; (2) the Montana Forestry Division, which has parts of the south and west shores, and also leases 28 cabin sites; and (3) private owners at the lake's north end. As a rule, the cabin dwellers are weekend or seasonal residents.

The tracts which Champion has offered to the state are classed as "undeveloped recreational lands" by Missoula County. Taxes on them in 1976 totalled about \$870.00.

b. Utilities

Powerlines parallel the north Placid road and the east shore road. There are two pit latrines existing on site. No other utilities are present.

6. Public Recreation

a. Placid Lake

For years, public recreationists have used the privately-owned, mostly-undeveloped east share of Placid Lake. Here they park where they can, then camp, swim, or launch their boats. Their numbers are hard to estimate, and the Missoula County Comprehensive, Plan notes simply that Placid Lake "can and (does) support intensive recreational activity."

There are, however, Forest Service traffic counts for the Placid area. Based on them--and some Forest Service estimates of vehicle type--it appears that as many as 21,664 "recreational" vehicles may have gone to Placid Lake between June and December of 1976. At 4.1 persons per vohicle (a factor reported in Pish and Game's 1976 "Flathead Pee Study"), that would seen 88,822 visitors-62,861 of them in June, July, and August. This figure is slightly exaggerated as cabin owners were counted also.

The Montana Department of Fish and Game also has a general picture of east shore users—the result of weekend surveys in July high August of 1977; when 121 groups were interviewed. The department found that: (1) most of the people, 103 groups, were from Missoula, Levie and Clark, and Flathead counties—very few from out-of-state; (2) three fourths of them were staying overnight, mostly in trailers or chapter-though a dozen used teots and a few slept in their cars; (5) over half, the groups questioned said that they visited the east shore three or more times a year; and (4) the favorite activities at the lake were, in descending order of popularity: fishing and resting/relaxing (sied for first); motorized boating; swimming or wading; water-skiing; picnicking; and a number of others, including motorcycling, pike miding and hiking!

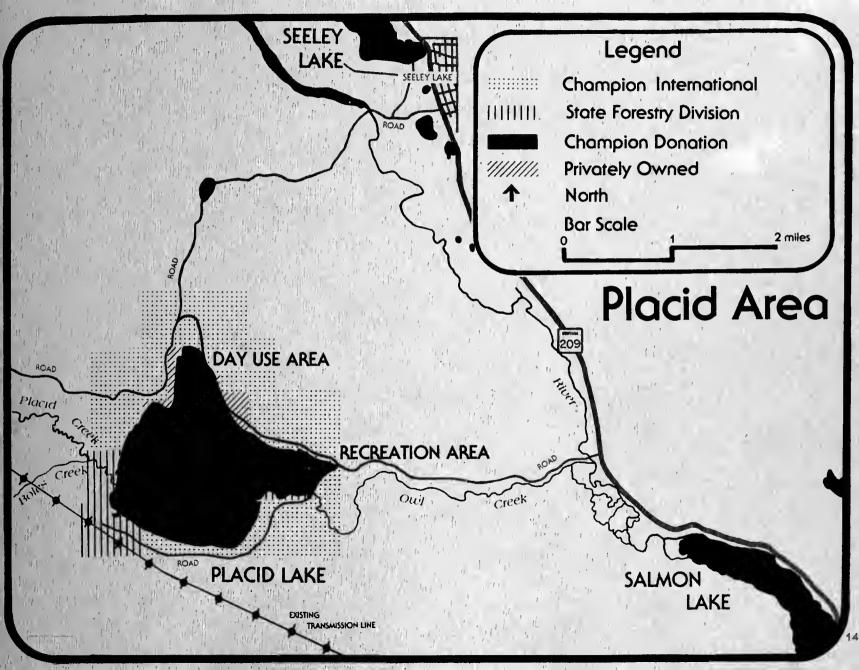
The study revealed that most present users of the area wish to have improved restroom facilities and drinking water developed. Most of the present users are fairly well satisfied with the area as it exists. This was anticipated by the department as non-users were not interviewed.

b. Missoula County

According to its 1976 Parks, Recreation, and Open Space Flam Missouls County has 21 state or federal normal regression steel system of them offering both camping and boating Local governments on the other hand, provide no nonurban recreation sites at all inhough Missouls County does own about 100 acres of undeveloped parkland southerst of Seeley Lake. It will probably remain open space.

Besides showing little desire to leave "critical decisions concerning recreation opportunities and landscape modification" to federal and state agencies, the recreation plan suggests that: (1) state and federal agencies should be encouraged to devolop day-use sites [aspecially near water) within 50 miles of Missoula; and (2) the Clempater lakes could be viewed as a "regional" recreation complex—that is, an erem serving a metropolitan and multi-county users.

Public recreationists plus Placid cabin owners and their guests



c. State of Montana

Fish and Game Region 2 (Missoula, Mineral, Powoll, Granite, Deer Lodge, Ravalli and a portion of Lewis and Clark countles) has 31 state recreational sites—most of them highway fishing accasses on streams. Only two in eastern Missoula County offer cumping, picnicking, and boating; and one of them is Fish and Game's Harper Lake Fishing Access which is a small campground north of Clearwater Junction. Besides the Placid and Salmon recreation areas, there are no Fish and Game developments proposed for the Clearwater Valley.

The Plecid Lake project meets several needs identified in the 1973 Statewide Comprehensive Outdoor Recreation Plan (SCORP) and in the preprint drafts of the 1978 version. The 1977 legislative long-range building program established the Placid Lake project as the 37th priority out of 64 projects statewide. This priority list includes all other capital construction projects of most all branches of state government.

. 1973 SCORP

Montana's 1973 SCORP includes discussions of the "regional park"--a useful way of looking at the Placid and Salwon Lake proposals. "Regional" recreation sites serve mainly urban populations, plus county residents and people from smail nearby towns. The standard for them is 25 acres/1000 population, and their emphasis is supposed to be on the natural environment and such activities as camping, plenicking, and water sports. Though it is hard to tell which federal lands may actually function in this way, it appears that Region 2 is seriously deficient in regional parks. This view is supported by the Department of Fish and Game and the Missoula County Parks, Recreation, and Open Space Plan.

The 1973 SCORP also mentions recreation sites which (like Placid's east shore) are already used informally. It recommends that their facilities be improved where practical.

. 1978 SCORP

Data collected for the 1978 SCORP (to be published in March, 1978) confirms that Fish and Game's Region 2 is short of regional park facilities, a situation expected to worsen over the next 15 years as the area's population grows. Region 2 tates high in priority for the enhancement of camping and day-use facilities. The data also show a need for more boating opportunities in Region 2-as many recreationists must now travel to other areas 12

d. Federal Government

Developed Forest Service compgrounds are fairly numerous in the Clearwater Valley. Three at Seeley Lake offer a total of 105 campsites. 38 picnic spots, and 2 boat launches; to the north, lakes Inst. and Alva together have 22 campsites and two boat ramps. Two other lakes west of Placid-Elsina and Spook-also have several heavily-used, undeveloped campsites. In 1977, summer occupancy of the Seeley Lake campgrounds ran about 50 to 55 percent, with some days considerably busier than that. Almost 85 percent of the user's were Montanans.

In fiscal year 1978, the Forest Service plans to add 20 campsites and a swimming beach at Lake Alvar beyond that, no expansion of recreational facilities is slated for the area. As yet, there is no recreation management plan for the Clearwater chain of lakes, but some preliminary work on it has already began. One idea, according to the Forest Service, might be to concentrate people—and water-oriented recreation—at the south end of the chain. Thus Scaley lake would have many campgrounds, resorts, and water skiers; Clearwater Lake would have neither road access nor motorboats. The proposed Fish and Game developments at Placid and Salmon, it is felt, "could fit nicely on the higher end of that spectrum." 13

7. Traffic

For several years employess of the Lolo National Forest have monitored traffic in the Placid Lake Area-respecially on the main Placid Creek Road (349) which runs west from Highway 209. Vehicle counts were made from May to August, 1968; in July, 1974; and from June to December, 1976-and there were also some surveys of drivers' destinations.

In 1976, the Placid Greek Road had over 32,500 vehicles between June and December. Most were counted before October, and the busiest month was July, when there were about 8800, including an estimated 7100 recreationists and 725 loggers.

Not surprisingly, federal planners have found that most of Road 349's use is recreational; roughly 70% in 1976, with 10% logging-related, and 16% "public service and other" (including area residents). 14 Before logging and residential traffic picked up, earlier surveys put the recreational vehicle at more than 90% and suggested that most of the drivers were headed for Placid Lake. Whatever its exact percent of the total, recreational traffic is apparently on the increase; the Forest Service's 1975 Placid area study projects a yearly growth of 2 to 3%.15

8. Aesthetics

The Placid area is scenic, but not unusually so for western Montana. Some lakes in the Clearwater valley show more obvious human disturbance than does Placid, some show less. Most viewers, though, would agree that the setting here is fairly natural and that mountain lakes like Placid have considerable scenic value.

Use levels at Placid on summer weekends are high.
Purists might consider the present traffic, boater, and camper levels objectionable. However, vegetation acts as a noise, level buffer as well as providing shade and relative seclusion. In some areas, however, the soil has been compacted beyond its ability to support vegetation.

Another matter of concern is the proposed Colstrip-to-Hot Springs 500 KV power linea, which—if the Montana Board of Natural Resources recommendation is accepted, could run just southwest of Placid Lake possibly within the existing power corridor. Physically, such lines would not affect the recreation area; visually, their impact is hard to determine at this time.

For detailed information on the lines--and how their route will be decided--see Appendix D.

9. Sanitation, Health and Public Safety

Through an informal arrangement with Champion International, Fish and Game already helps maintain the proposed recreation area, but the site is sometimes littered. There is no developed source of water and the pit latrines definitely need to be replaced.

The Missoula County Sheriff's Department now patrols the Placid Lake area. The department wardens also patrol both the land and water areas by car and boat. Swimmers and boaters are presently using the same areas of the lake. Logging and cabin site traffic is routed through the proposed development area.

III. ENVIRONMENTAL IMPACTS

A. Natural

1. Topography and Geology

Development and use of the recreation site will have little effect on the area's landforms, and no impact on mineral resources or unique physical features.

2. Soila

The proposed action will mean continued—though perhaps reduced—disturbance and compaction of the area's soils. Previously unused land will be disturbed, and people will still trample soils which, although not highly crodible, could over time become more compacted. But there will also be much improvement: (1) less pressure on some already-trampled sites and (2) restrictions on where motor vehicles can be driven.

3. Air Quality

During construction of the campground, there will be brief local increases in the level of dust and exhaust emissions near Placid Lake. When the project is completed, the department expects about the same amount of traffic, dust, and campfire smoke as there is today in the area of Placid Lake but less dust at the recreation site itself since there are plans to block the east shore road and pave parts of the campground.

4. Surface Water

Upgrading Chapton's Placid Lake access from an uncontrolled camping and boating spot to a supervised recreation area will reduce impacts on water quality. The proposed road system will limit land discurbances (and erosion) caused by vehicles, while the single well developed boat ramp will take pressure off shoreline areas by limiting use to one launch areas. Both will reduce sedimentation

Also, new sanitary facilities will slipinate purential presnic and nutrient pollution of the lake. A drainfield and several sealed vault tollets will be instelled.

5. Ground Water

The project's potential impacts on ground water are unknown! Bowever, the water table lies deeper than 10 feet below the ground surface and the area is not a ground water recharge zone. Therefore, any impacts are expected to be very minor

6. Vegetation

The Placid project a overall impact on vegetation are hard to predict, however, the development of footpaths, as well as camping and driving restrictions, could stem the deterioration of the area's flora, or even improve its condition.

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2. Population, Economy, and Employment

As one of many recreation spots in eastern Missoula County, the Placid Lake development will have a negligible impact on the area's population, economy, and employment. If Fish and Game acquires the land, it will never be used for logging or cabins; thus Missoula County could lose about 32 acres of second-growth timber and saveral small construction jobs.

Conversely, area businesses and workers (who receive contracts) might help to develop the recreation site. This could mean about ten four-month jobs. Following construction, the campground would be managed by a single Fish and Gsme seasonal employee. Also, Seeley Lake merchants stand to profit from the development—especially if its users need provisions, gasoline, or meals.

3. Land Use

a. Options and Taxes

The proposed Piscid Lake project will have little effect on the area's land use patterns. Champion's offer itself asks that the tracts be used—as they are now—for recreation. The property will be removed from the county tax rolls.

Acceptance of the Champion offer will obviously end the company's options for administration of the land: (1) continuing to permit unsupervised public use of the tracts, (2) posting the property, and (3) subdividing, selling, or logging the sites.

b. Utilities

The project will also have little effect on the area's utilities. Powerlines adjacent to the proposed campground will be tapped, and those along the east shore eventually buried. New water and septic systems are parts of the development.

4. Public Recreation

Fish and Game's proposed action will have several effects on the recrestional use of Placid Lake. The project is expected to:
(1) gusrantes public access to the lake; (2) preserve two popular recrestion sites for the long-term enjoyment of the public; (3) broaden the user base at Placid; (4) cause a slight shift in user groups from those who enjoy a more primitive environment to those who can accept a more controlled and regulated facility; and (5) increase controls over public users.

- Guaranteed access Placid's shoreline owners could end public access to the lake. The proposed action eliminates that possibility.
- Site preservation The tracts cannot sustain uncontrolled use without sustaining more physical damage. The recreation area design insures that the site will be developed to limit physical damage to the extent this is possible, while applying landscape architecture principles to insure aesthetic compatibility.
- User base Signs on Highway 209, and the recreation area's appearance on state maps, will bring new users to the lake. They will include nonresidents and Montanans not previously aware of Placid Lake. The greatest impact should be from the latter since Highway 209 is not a major tourist route.

Broadening the <u>range</u> of Placid Lake users should not mean major changes in their numbers. After a rush of county residents curious about the site, the east shore should have shout as many visitors as it has today. Use will increase as population and leisure time increase.

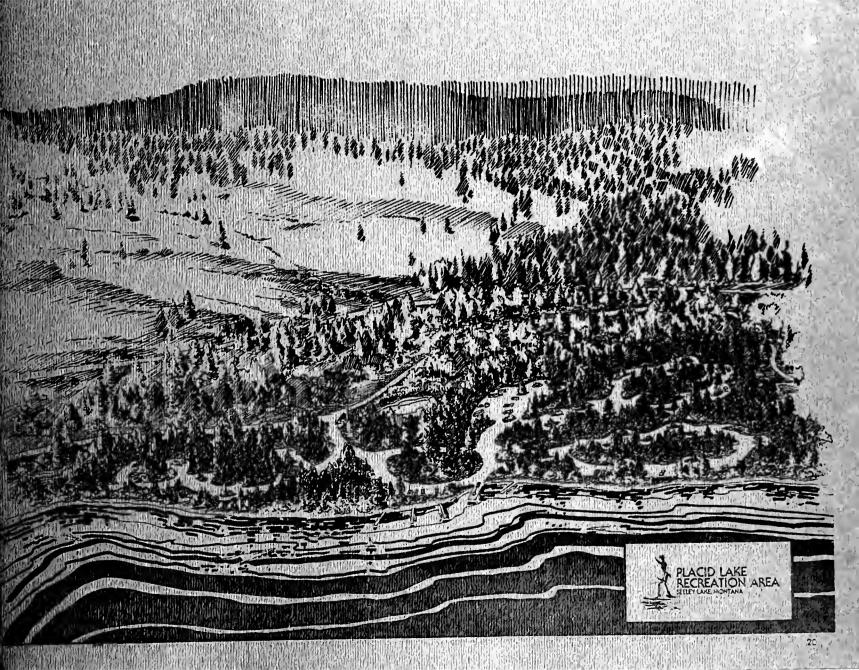
Long-term predictions are complicated by the fact that use of the Placid area (at least the amount of recreational traffic there) is already growing at the rate of Z to 3% a year. 16 Naturally, a new recreation area would become a factor in that growth—but only to a point: the site facilities will only handle a limited number of visitors.

Hear groups - Many of Placed Lake a public train appear to be small smally groups - Fact thick will not change with the said tion of many south the said tion of many secretary facilities

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IV. MEASURES TO MINIMIZE ADVERSE ENVIRONMENTAL IMPACTS

One reason for the development's small number of impacts is that the design takes advantage of several already-used areas. By focusing on these areas, Fish and Came will hold (the disruption of wildlife and undisturbed ground to a minimum. To further reduce the project's adverse effects, and to enhance the quality of the sites, the department will also:

Close, obliterate, and reseed unused roads and parking areas in the two tracts.

Plant trees and shrubs to acreen the new facilities, especially where coveries lost to construction. (Landscaping should also slow down soil erosion and edepaction.)

Design roads to minimize cuts end fills.

Reduce dust in the main campground by (1) controlling the speed of vehicles and (2) gravelling, paving, or oiling sections of the roads.

Introduce regular garbage pickups and a sanitary sewage system.

Provide an attractive but dutable recreation area by exerting reasonable controls on users numbers and activities

Though the proposed project is not expected to disturb archaeological resources or the University of Montand's Owl. Greek Aquatic Study, the Department of Fish and Gams will (1) warn construction crees to be watchful for buried cultural materials and (2) aid the Owl Greek researchers by posting signs near their equipment, or by collacting water samples in the summer so that experts can monitor changes, if any, in Placid Lake's water chemistry.

V. UNAVOIDABLE ADVERSE IMPACTS

Despite afforts to minimize its adverse effects, the proposed project will still (1) cause increased levels of ross nast, echanic emissions, and hoise during the construction phase. (2) count but to soil disturbance and upapputton; (3) destroy nearly 1. Large of vegetation; (4) discupt the normal activities of several manifestation; (5) bring occasional problem with lister and vandation of public property; and (6) remove the property from the bounty tax soils.

VI. RELATIONSHIP BETWEEN LOCAL SHORT-TERM USES OF MAIN'S INTERM US

Construction work of Placid links will cause vertices shart-term disruptions of the environment—increases in rose dest, exhaust emissions and noise, and disturbances of Augestation, soil one seek animals. These (slong with users impacts on wild him and ties, the loss of taxes, and temporary problems with litter; wandelism and the displacement of people who don't like the new development little be the immediate costs of the product.

Weighing against that will be (1) a guarantee of paymenters until access to the lake; (2) quality therestions; (3cf. ties on hutire generations; (3) long-tange improvements in the appealants wie look. Sitton of the lake a space where, and (4) systems to management of the

VII. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES.

The foasil fuels used by the construction enuipment will be less. The moneysty commitment is irrectivable. The area will be committed to recreational use in perpetutry, under the harps of the Federal acts and Vater Conservation Fund agreement. Therefore, the potential should be elemented.

VIII. ALTERNATIVES TO THE PROPOSED ACTION

A. No Action

One of the Department of Fish and Game's option is simply to refuse the Champion International donations at Placid Lake. What would happen then to the lake's enst shore-and to public recreation there—is impossible to say. Champion could: (1) continue to allow public use of its property; (2) post the land; (3) subdivide or log the tracts; or (4) a combination of the above.

These options would create impacts ranging from a continuation of present unsanitary, uncontrolled overuse to the loss of the recreation opportunity and the degradation of the site by loss of tree cover and possibly soil erosion.

B. Design Alternatives

The department also has a full range of design options—from little or no development at the site to more than what the plans now show, but if the department goal is providing quality recreation in a setting that can be conserved, neither extreme makes much sense. Left unprotected, both areas will continue to deteriorate; if over-developed, monetary, and environmental costs will outweigh the benefits to society.

Perhaps a more useful approach is to view the development plan as the maximum which will be implemented. Monetary limits may force the proposed developments to be constructed in phases. The Master Site Plan is schematic to the extent that individual facilities or sites may have to be field adjusted to take advantage of precise openings in vegetative cover or to avoid terrain features which have aesthetic value.

Another option would be to design the facilities for other types of use or to place the facilities in different

locations. To provide for other types of use would decrease the flexibility of the developments and would not provide for the demands of the public. To locate the apecific developments in different areas within the site would: (1) disrupt more vegetation; (2) not separate uses; (3) complicate traffic circulation; (4) possibly not comply with health regulations, and (5) would not eatisfy desires as well as the proposed Master Site Plan is expected to.

IX FOOMOTES

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XI. CONTACTS AND CONTRIBUTERS

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Irving J. Ricklyd, Gonzoffic, Stadu of Control Estimated

XII. APPENDICES

- A. Owl Creek Aquatic Study
- B. Vascular Plants of the Proposed Placid Lake Recreation Area
- C. Wildlife of the Proposed Placid Lake Recreation Area
- D. Colstrip 500 kV Lines

A RIGHTTR



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(000) 949-6129 November 9, 1977

University at Montana Missaula, Montana 19912

Recreation and Parks Division Montans Department of Fish and Cam Melens, Montans 5000

Bear Ton.

Thank you very much for your interest on our work at ful Greck. We have been doing various cap tracets in stream energetize along that attemn for about five years. New, we findily have a chance to tell people what is happening up there.

Most of emaine water ecology, as you may know, is still very much in its infancy. More I involvation have here necessarily not less for almost 100 years, stream ecologists have only been plying their trade for 20 to 30 years. Unfortunately, these past 30 years have seen the greatest amount of atterm alterations thus any other interval of that length. Most atream bindpists have just barroly gatten past the point of obtaining baseline information on what is living in the etrams. The alterations often pretude must reasonth hepoon that point.

take outlot receptees, such as Oul Creek, are unique subsets of most running water ecosystems. They are not like first and accord order paterahed streams. Pather, in many ways, they mimic larger order rivers in their studectivity ration. benthic community, and vater chemistry. Secause they are shellow and ranily accessible, work on late outlet access could provide model information shout larger rivers in the area. Dr. Andrew L. Sheldne, Dr. Mark Oswood (presently at the University of Alasta), and I have been examining the recruetion of this atream for many years in an effort to construct a model of matricut flow and emergy flow through a typical lake outlet ecosystem. As a matter of feet, Mark Oswood' information on the cole of litter (onders (the caddiuflies, in particular) will be critical to our browledge of the dynamics of the stream. Since the time of the publication of Park's information, we have examined the roles of some of the sojor stonefly predators and will be looking at the role of the maylties as well so autotrophic and heterotrophic productivity in the atroom as it is offseted by the lake. Any puper impact which would cause an increase in the acciment loud of the atress or the assumt of argonic meterial derived from the lake which then passes into Oct Crest could change the dynamics of the stream to the point where previously obtained data on the stream would be nullified.

A sound management practice with regards to the proposed new camprisms on Farid Labs would require monitoring of changes in labs attendarry, particularly with regard to particulate organic material, dissolved oayen, turbidity, and ploaphates. If these can be mointained at an about their present leculus or their predicted changes due to maintained a gardney's changes which never in the litetime of a labe, our man research with have been alied immessily and the impact to the dynamics of Dul Cree's and mikes dynamics of Dul Cree's and mikes dynamics and will probably be ougligible.

Equal Opportunity in Education and Employment

Hoyember 5,2197

As we have enquired ray research on and in the Crew at I year round, it is not a certainty be appreciated if the Wife, and then the pretent could not be now a time aching people out to remove quipeent, from the afterness. The "quipeent" includes artificial substrates finally reviet, recks, on then highly productivity glides (tricks with nicroscape, raises att., buf to then), dissolved shypes bottless, thereagraphs, and insectidable such as various than at the year.

It is anticipated that resuarch will continue for at last mather four are live years. We sho kope to true on to the late trail to annote acceptantion and finherits dynamics) and into the Planid Crob watershad to do some acceptant of closeratting impact.

If you should require any further information, I would be glad to provide in

Sigraraty

JAMES A. CORE
Dept. of Eschory
University of Rontage
Missivals, Hontage 59812

F. S. Für what value it may be, my qualifications are a de, is confrommental biology, and his, in enquite biping from in C. Coloredo, and V. of Rendamy, capactively). I am presently a Ph.D. graduate student and instructor of the classes to a tram worklops.

JAC/PJT

APPENDIX B

VASCULAR PLANTS OF THE PROPOSED PLACID LAKE RECREATION AREA *

Common name	Scientific name	Common name	Scientific name
. fern allies:			
common scouring-rush	Equisetum hymale L.	flowering plants:	
marsh horsetail	Equisetum palustre L.	common yarrow	Achillea millefolium L.
conifers:		baneberry	Actaea rubra (Ait.) Willd.
		bentgrass	Agrostis alba L.
mountain juniper	Juniperus communis L.	Sitka alder	Alnus sinuata (Regel) Rydb.
Rocky Mountain juniper	Juniperus scopulorum Sarg.	Geyer pussytoes	Antennaria geyeri Gray
tamarack	Larix occidentalis Nutt.	field pussytocs	Antonnaria neglecta Greene
Engelmann spruce	Picea engelmannii Parry		
lodgepole pine	Pinus contorta Daugi.	common burdock	Arctium minus (Hill) Bernh.
ponderosa pine	Pinus ponderosa Dougl.	klnnikinnick	Arctostaphylos uva-ursi (L.) Spreng.
	Pseudotsuga menziesii (Nirbel) Franco	dragon sagewort	Artemisia dracunculus L.
Douglas fir	roendotougu menoteott (mirter) Italico	prairie sage	Artemisia ludoviciana Nutt.
, ·		leafy aster	Aster foliaceus Lindl.

^{*}Survey by Thomas J. Watson, Jr.

Common name

arrowleaf baleamroot
creeping Oregon-grape
water birch
nodding beggarticks
Japanese brome

Parry's bluebell spotted knapweed white goosefoot

Douglas' waterhemlock

Canadian thistle

pipsisseva

Columbia clematia

creek dogwood

Sierra feiry-bell

Canadian waterweed

western rye-grass

fireweed

Scientific name

Balsamorhiza sagittata (Purch) Nutt. Berberis repans Lindl. Betula occidentalis Hook. Bidens cernua L. Bromus japonicus Thunb. Campanula parryi Gray . Centaurea maculosa Lam. Chenopodium album L. Chimaphila umbsllata (L.) Bart. Cicuta douglasii (DC) Coult. & Rose Cirsium arvense (L.) Scop. Cirsium vulgare (Savi) Tenore Clematis columbiana (Nutt.) T & G. Cornus stolonifera Michx. Crataegus douglasii Lindl. Disporum trachycarpum (Wats.) Benth. Elodsa canadensis Rich. Elymus glaucus Buckl. Epilobium angustifolium L.

Common name

Wateon's willow-weed pale dogtooth-violet woods strawberry fragrant bedstraw sticky purple geranium roundlesf alumroot water lentil twinflower bearberry honeysuckle silvery lupine corn mint Hooker a evening-primrose common timothy nippleseed plantsin quaking sepen black cortonwood sticky cinquefoil self-hesl one-sided wintergreen

Gmelin's buttercup

Scientific name

Epilobium wateonii Barber Brythronium grandiflorum Purs Pragaria vesca L Galium triflorum Micha. Geranium viscosiasimum P. & Revokera cylindrica Dourt. Lemna minor L. Limaea borealis L. Lonicera involucrata (Rich Lupinus argenteus Pursh Mentha arvenois L Oenothera hookeri T. & G. Phleum pratense L. Plantago major 1. Populus tremuloides Michx Populus trichocarpa I. & G Potentilla alandulosa Lindi Princila valgarie L. Pyrola seguria L. Rammeulus gratinii DC

Common name

Scientific name

Wood's rose

Rosa woodsii Lindl.

red raspberry

Rubus idaeus L.

thimbleberry western dock Rubus parviflorus Nutt.

marsh skullcap

Rumex occidentalis Wats.

soapberry

Scutellaria galericulata L.

false spikenard

Shepherdia canadensis (L.) Nutt.

Smilacina racemosa (L.) Desf.

smooth goldenrod

Solidago gigantea Ait.

shiny-leaf spiraea

Spiraea betulifolia Pall.

Richardson's needlegrass

Stipa richardsonii Link

common snowberry

Symphoriocarpos albus (L.) Blake

common dandelion

Taraxacum officinale Weber

western meadowrue

Thalictrum occidentale Gray

stinging nettle

Urtica dioica L.

common mullein

Verbaseum thapsus L.

American brooklime

Veronica americana Schwein.

slender cinquefoil

Potentilla gracilis Dougl.

APPENDIX C

WILDLIFE OF THE PROPOSED PLACID LAKE RECREATION AREA

Common name	Scientific Name	Common name	Scientific name
ahrewa - R	Sorex app.	grebes - V	Podiceps spp.
chipmunka - R	Eutamias epp.	great blue heron - V	Ardea herodias
golden-mantled squirrel - R	Citellus lateralis	Canada goose - V	Branta canadensis
red aquirrel - R	Tamiaeciurus hudsonicus	mallard - V	Anas platyrhynchos
black bear - V	Ursus americanus	pintail - V	Anas acuta
mink - R	Mustela vison	teal, green-winged - V	Anas carolinensis
coyote - V	Canis latrans	teal, blue-winged - V	Anas discors
bobcat - V	Lynx rufus	wood duck - V	Aix sponsa
besver - V	Castor canadensis	merganser - V	Hergus app.
muskrat - R	Ondatra aibethica	bald eagle, - 'V	Haliasetus Isucooenhalus
porcupine - V	Erethizon dorsatum	red-tailed havk - V	Buteo jamaicensis
snowshoe hare - R	Lepus americanus	osprey - V	Pandion haliastus
white-tsiled deer - V	Odocoileus virginianus	American keatrel - R	Falco sparverius
raccoon - V	Procyon lotor	5	
striped skunk - R	Mephitis mephitis	4.41	
red fox - V	Vulpes fulva		
short-tailed weasel - R	Mustela erminea	R - resident; summer or year-lor V - visitor; does not breed on a	

Common name

Scientific name

chickadees	- 1
------------	-----

waxwings - R

warblers - R

western tanager - R

western painted turtle - R

Rocky Mountain toad - R

red-sided garter snake - R

ruffed grouse - R

spruce grouse - V

American coot - V

killdeer - R

spotted sandpiper - R

Wilson's snipe - V

black term - V

mourning dove - R

common nighthawk - R

belted kingfisher - R

downy woodpecker - R

Parus spp.

Bombycilla spp.

Vermivora spp.

Piranga ludoviciana

Chrysemys picta belli

Bufo woodhousei woodhousei

Thammophis sirtalis parietalis

Bonasa umbellus

Divided temperous

Canachites canadensis

Fulica americana

Charadrius vociferus

Actitis macularia

Capella gallinago

Chlidonias niger

Zenaidura macroura

Chordeiles minor

Megaceryle alcyon

Dendrocopos pulescens

eastern kingbird - R

Steller's jay - R

common raven - V

Clark's nutcracker - R

Tyrannus tyrannus

Cyanocitta stelleri

Corvus corax

Nucifraga columbiana

Page 1 July France

APPENDIX P

MONTANA REPARTMENT OF NATURAL RESOURCES & CONSERVATION
MONAGES BY THE GOADS STATES FOR STATES AND S

DNRC

Hoverber 26, 1977

RECEIVED

Parks Division Hontana Department of Fish and Game

NUV 30 19//

Helena, Montana 59601

Dear Strs:

This letter is in answer to Mr. Too Basket's letter of inquiry regarding the proposed Colstrip-Hot Springs 500 kV lines.

The Board of Natural Resources and Conservation has conditionally approved a corridor which run; as shown on the enclosed map. The corridor is two miles wide -- one oil on either side of the line drawn on the map. (Transmission corridor" means a means a linear tract of land, two miles or less in width, where a transmission line may be located.)

Placid take lies just northeast of the corridor and the line will probably be visible from the north and cast shorelines of the lake. There will be two transmission lines running side by side and occupying a strip of land about 300 feet wide. The two lines will be built somewhere within the two-wile-wide corridor, but not necessarily exactly along the line drawn on the maps. The Department of Natural Resources and Conservation is currently doing a "canterline" evaluation to decide asactly where within the corridor the lines will be built. We will recommend a conterline to the board; the board then will sither approve it or make changes as they see fit. So, you can see that the actual lines could pass along the edge of the lake, if the board approves a centerline near the northeast edge of the corridor in TIGM, RISM. It is highly unlikely that the Department will recommend this to the Coard - we are quite make of the visual ispact of the lines and will probably want the line as far southeast in the corridor as possible.

The State-approved corridor crosses land managed by federal agencies — in this case the Forest Service — and these agencies may choose not to grant esseements through the state-approved corridor. The federal agencies, hasded by Donneville Power Administration, are in the process of doing a Transmission invironmental Peport, to evaluate the relative excits of a number of corridors atternate so the state-approved one. Several of their alternates pass near Missoula and entirely avoid the Placid (ale-Jocko Pass area. The final federal Missoula and entirely avoid the Placid (ale-Jocko Pass area. The final federal Missoula and entirely avoid the Placid (ale-Jocko Pass area. The final federal Missoula and entirely avoid the Placid (ale-Jocko Pass area. The final federal Missoula and entirely avoid the Placid (ale-Jocko Pass area. The final federal Missoula and entirely avoid the Placid (ale-Jocko Pass area.) The final federal Missoula and entirely avoid the Processing of the Placid (ale-Jocko Pass area.) The final federal Missoula and entirely avoid the Placid (ale-Jocko Pass area.) The final federal Missoula and entirely avoid the Placid (ale-Jocko Pass area.) The final federal Missoula and entirely avoid the Placid (ale-Jocko Pass area.) The final federal Missoula and entirely avoid the Placid (ale-Jocko Pass area.) The final federal Missoula and entirely avoid the Placid (ale-Jocko Pass area.) The final federal Missoula and entirely avoid the Placid (ale-Jocko Pass area.) The final federal federal attention of the forth of the final federal attention and forth of the f

TORRE SMATHOM, MELENA, MONTANA SEROT

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Las Matcalf United States Senate Washington, D. C. 20510

Mex Reucus House of Representatives Washington, D. C. 20515

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ORGANIZATIONS

Institute of the Rockies, 620 Evans, Missouls, Montans, 59801 Student Environmental Research Center, University of Montans, Missouls, Montans, 59801 The Wilderness Society, 8020 East Evans, Denver, Colorado, 80222 Advisory Council on Historic Preservation, Attention: Louis Wall, Assistant Olfrector, Office of Compliance, P. 0. Box 25085, Denver, Colorado, 80225 Campground Owners Association, c/c New Bailey, Bailey's Landing,

Campground Owners Association, c/o Ken Bailey, Bailey's Landing, Somers, Montana, 59932

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Montana Wildlife Federation
Don Aldrich, 410 McHouweth, Missouls, Montana, 59801
Hugh Zeichheis, 108 S. 6th E., Missouls, Montana, 59801
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Center for the Public Interest,
Attention: Mekenyapigste, P. O. Box 931, Boseman, Montana, 59715
Montana Guider and Duffitters Association,
Attention: Rob Mart, Box 1159, Liviegaton, Montana, 5907
The Montana Fower Company, Sutte, Montana, 59701
Montana Sitera Club.
Attention: Jean Warren, 509 Hill St., Missoula, Montana, 59801
Trout Philathed, c/o Kevin Glaes, Missoula, Montana, 59801
Burtlington Mortherm Railroad, c/o Don Mctieton, 700 South Avenue Leat,
Missoula, Montana Server

Trout Unlimited, c/o Kevin Glase, Missoula, Montana, 59801
Burlington Northern Ballroad, c/o Don Nectleton, 700 South A/renue Lest,
Missoula, Montana, 59301
Flacid Lake Crbin Owners Association, r/o Tim Garrity, President, Missoula,
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